

CLAIMS:

1. An improved agricultural soil heating process using a plastic film characterized in that the plastic film or sheet is an aromatic thermoplastic polyurethane film or sheet.
- 5 2. The improved process according to Claim 1 where the thickness of the thermoplastic polyurethane film or sheet is from about 20 to about 150 microns.
3. The improved process according to Claim 1 where the thermoplastic polyurethane used to prepare the film or sheet is an aromatic thermoplastic polyurethane comprising a polyether type of soft segment.
- 10 4. The improved process according to Claim 1 where the thermoplastic polyurethane used to prepare the film or sheet is an aromatic thermoplastic polyurethane comprising a polyester type of soft segment.
5. The improved process according to Claim 1 where the agricultural soil heating process is solar soil sterilization.
- 15 6. The improved process according to Claim 1 where the thermoplastic polyurethane used to prepare the film or sheet is an aromatic thermoplastic polyurethane comprising a hard segment content of at least 30 percent by weight.
7. The improved process according to Claim 1 where the thermoplastic polyurethane used to prepare the film or sheet is an aromatic thermoplastic polyurethane comprising a hard segment content of at least 40 percent by weight.
- 20 8. The improved process according to Claim 1 where the thermoplastic polyurethane used to prepare the film or sheet is an aromatic thermoplastic polyurethane having a Shore A hardness of at least 80
9. The improved process according to Claim 1 where the thermoplastic polyurethane used to prepare the film or sheet is an aromatic thermoplastic polyurethane having a Shore A hardness of at least 85.
- 25 10. The improved process according to Claim 1 where the thermoplastic polyurethane used to prepare the film or sheet is an aromatic thermoplastic polyurethane having a Shore A hardness of at least 90.

11. The improved process according to Claim 1 where the thermoplastic polyurethane used to prepare the film or sheet is an aromatic thermoplastic polyurethane having a Shore D hardness of not more than 75.
12. The improved process according to Claim 1 where the thermoplastic
5 polyurethane used to prepare the film or sheet is an aromatic thermoplastic polyurethane having a T_g of less than 25°C.
13. The improved process according to Claim 1 where the thermoplastic polyurethane used to prepare the film or sheet contains the dispersed additives prior to being supplied to a film extrusion step.